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STRUCTURE FILE UPDATES: 19 MAR 2009 HIGHEST RN 1123923-98-7
 DICTIONARY FILE UPDATES: 19 MAR 2009 HIGHEST RN 1123923-98-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

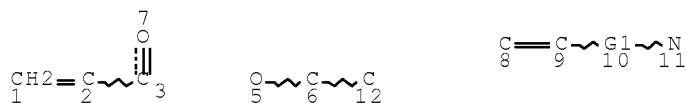
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 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d que 117

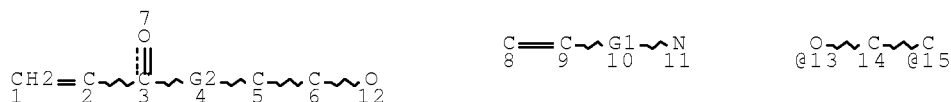
L5 STR



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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
 L7 4380 SEA FILE=REGISTRY SSS FUL L5
 L15 STR



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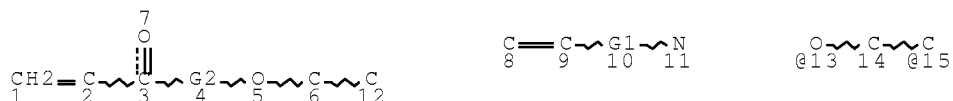
10/576,892

NODE ATTRIBUTES:
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GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
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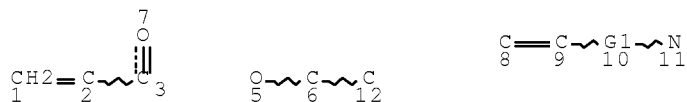
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L3 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
L5 STR



REP G1=(0-10) C
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
L7 4380 SEA FILE=REGISTRY SSS FUL L5
L10 56 SEA FILE=REGISTRY SUB=L7 SSS FUL L3
L12 24 SEA FILE=HCAPLUS ABB=ON PLU=ON L10

=> fil hcap
FILE 'HCAPLUS' ENTERED AT 07:55:36 ON 21 MAR 2009

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FILE COVERS 1907 - 21 Mar 2009 VOL 150 ISS 13
 FILE LAST UPDATED: 20 Mar 2009 (20090320/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l12 1-24 ibib ed abs hitstr hitind

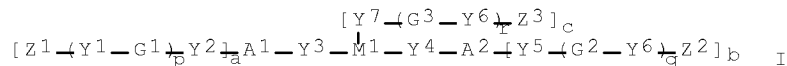
L12 ANSWER 1 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2008:1073367 HCAPLUS Full-text
 DOCUMENT NUMBER: 149:333183
 TITLE: Polymerizable liquid crystal compounds and compositions, liquid crystal polymers and optically anisotropic substances
 INVENTOR(S): Sakamoto, Kei; Yachi, Yoshihide; Kogoshi, Naoto
 PATENT ASSIGNEE(S): Zeon Corporation, Japan
 SOURCE: PCT Int. Appl., 108pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2008105538	A1	20080904	WO 2008-JP53670	20080229
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ,			

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TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 PRIORITY APPLN. INFO.: JP 2007-51440 A 20070301

ED Entered STN: 05 Sep 2008
 GI



AB The liquid crystal compds. have a formula I (M1 = C6-24 aromatic hydrocarbyl group having 3-4 bonds; Y1,Y2,Y3,Y4,Y5,Y6,Y7,Y8 = -C(=O)-O-CH2CH2-O-, -C(=O)-O-CH2CH2-, etc.; G1,G2,G3 = C1-20 bivalent aliphatic group, etc.; Z1,Z2,Z3 = C2-10 alkenyl group, etc.; A1,A2 = C4-24 bivalent or trivalent aromatic-ring containing group, etc.; a,b = 0, 1 or 2; c = 1 or 2; p,q,r = 0 or 1.). The compds. can polymerize to give liquid crystal polymers with extremely high optical anisotropy, good solubility in organic solvents and compatibility with various additives such as alignment agents, and moldability.

IT 1052113-46-8P
 (liquid crystal compds. and compns. for manufacture of liquid crystal polymers and optically anisotropic substances with high optical anisotropy, good solubility and compatibility)

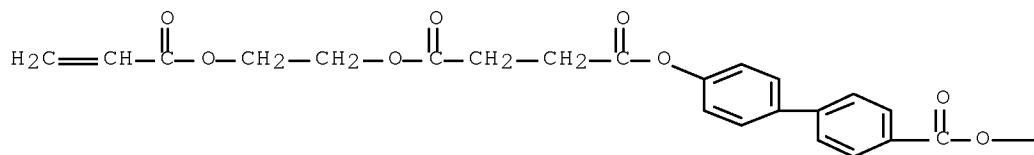
RN 1052113-46-8 HCAPLUS

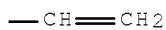
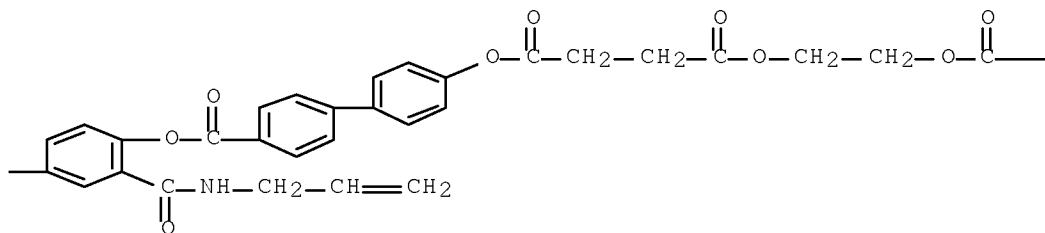
CN Butanedioic acid, 1,1'-[[2-[(2-propen-1-ylamino)carbonyl]-1,4-phenylene]bis(oxycarbonyl[1,1'-biphenyl]-4',4-diyl)]
 4,4'-bis[2-[(1-oxo-2-propen-1-yl)oxy]ethyl] ester, homopolymer (CA INDEX NAME)

CM 1

CRN 1052113-33-3
 CMF C54 H47 N O17

PAGE 1-A



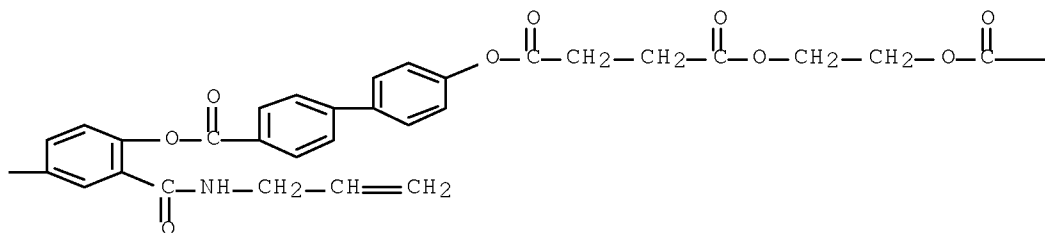
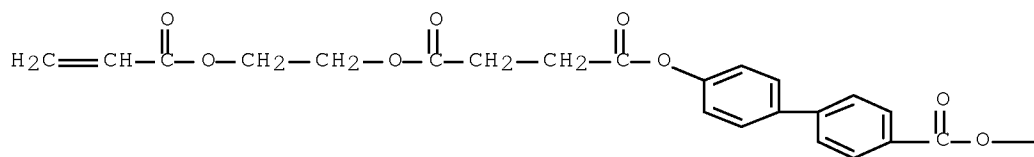


IT 1052113-33-3P

(polymerizable compound; liquid crystal compds. and compns. for manufacture of liquid crystal polymers and optically anisotropic substances with high optical anisotropy, good solubility and compatibility)

RN 1052113-33-3 HCAPLUS

CN Butanedioic acid, 1,1'-[[2-[(2-propen-1-ylamino)carbonyl]-1,4-phenylene]bis(oxycarbonyl[1,1'-biphenyl]-4',4-diyl)]
4,4'-bis[2-[(1-oxo-2-propen-1-yl)oxy]ethyl] ester (CA INDEX NAME)



$$-\text{CH}=\text{CH}_2$$

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CC      37-3 (Plastics Manufacture and Processing)
      Section cross-reference(s): 38, 73
IT      1052113-39-9P      1052113-40-2P      1052113-41-3P      1052113-42-4P
      1052113-43-5P      1052113-44-6P      1052113-45-7P      1052113-46-8P
      1052113-47-9P      1052113-48-0P      1052113-49-1P
      (liquid crystal compds. and compns. for manufacture of liquid crystal
      polymers and optically anisotropic substances with high optical
      anisotropy, good solubility and compatibility)
IT      1017573-61-3P      1052113-22-0P      1052113-23-1P      1052113-26-4P
      1052113-28-6P      1052113-29-7P      1052113-30-0P      1052113-31-1P
      1052113-33-3P      1052113-34-4P      1052113-37-7P
      (polymerizable compound; liquid crystal compds. and compns. for manufacture
      of liquid crystal polymers and optically anisotropic substances with
      high optical anisotropy, good solubility and compatibility)
REFERENCE COUNT:          15      THERE ARE 15 CITED REFERENCES AVAILABLE FOR
                                THIS RECORD. ALL CITATIONS AVAILABLE IN THE
                                RE FORMAT

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L12 ANSWER 2 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:322778 HCAPLUS Full-text
DOCUMENT NUMBER: 146:359309
TITLE: Photoreactive compounds and polymers for alignment
of liquid crystals
INVENTOR(S): Cherkaoui, Zoubair Mohammed; Reichardt, Joachim;
Studer, Peggy; Seiberle, Hubert
PATENT ASSIGNEE(S): Rolic AG, Switz.
SOURCE: Eur. Pat. Appl., 77pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1764405	A1	20070321	EP 2005-405549	20050920
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
WO 2007033506	A1	20070329	WO 2006-CH499	20060915
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,			

10/576,892

TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 EP 1928979 A1 20080611 EP 2006-775192 20060915
 EP 1928979 B1 20090304
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 JP 2009511431 T 20090319 JP 2008-531500 20060915
 KR 2008050583 A 20080609 KR 2008-706716 20080319
 US 20080274304 A1 20081106 US 2008-67376 20080319
 CN 101268168 A 20080917 CN 2006-80034704 20080320
 IN 2008CN01378 A 20081128 IN 2008-CN1378 20080320
 PRIORITY APPLN. INFO.: EP 2005-405549 A 20050920
 WO 2006-CH499 W 20060915

ED Entered STN: 22 Mar 2007

AB GSA(CHX:CHYB)n [A, B = (substituted) 5-40-atom ring containing ≥ 1 unsatn. directly connected via electron conjugation to the double bond, S = single bond or spacer unit, n = 1,2, or 3, X, Y = groups of which 1 is a H and the other is an electron-withdrawing group, G = H, (substituted) alkyl, or a polymerizable group, with the proviso, that when Y = CN and A = unsubstituted phenylene, B \neq phenylene para-substituted by CN, NO₂, or CO₂H, and with the proviso, that if A = 1,4-phenylene substituted by halogen, CN, and(or) NO₂, and B = 1,4-phenylene [substituted by halogen, CN, and(or) NO₂], pyrimidine-2,5-diyl, pyridine-2,5-diyl, 2,5-thiophenylenediyl, 2,5-furanylene, 1,4-naphthylene, or 2,6-naphthylene, then X \neq CN or CO₂-C1-12-alkyl] and their polymers (when G is a polymerizable group) exhibit high photosensitivity and broad processability window for the alignment of liquid crystals. A typical polymer was manufacture by radical polymerization of 8-[4-[2-cyano-2-(3,4-dimethoxyphenyl)vinyl]-2-methoxyphenoxy]octyl methacrylate.

IT 929644-01-9P

(photoreactive compds. and polymers having 2 aromatic rings connected by vinyl group for alignment of liquid crystals)

RN 929644-01-9 HCAPLUS

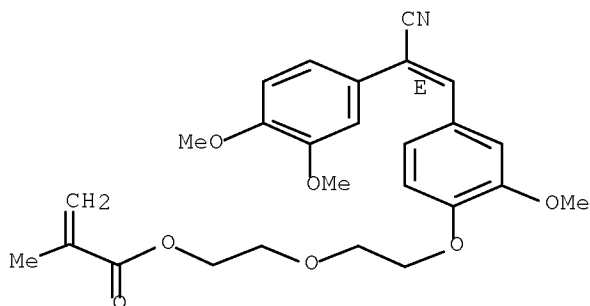
CN 2-Propenoic acid, 2-methyl-, 2-[2-[4-[(1E)-2-cyano-2-(3,4-dimethoxyphenyl)ethenyl]-2-methoxyphenoxy]ethoxy]ethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 929644-00-8

CMF C26 H29 N O7

Double bond geometry as shown.



10/576,892

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 74, 75

IT 929643-73-2P 929643-77-6P 929643-79-8P 929643-81-2P
929643-83-4P 929643-85-6P 929643-87-8P 929643-89-0P
929643-91-4P 929643-94-7P 929643-96-9P 929643-99-2P
~~929644-01-9P~~ 929644-03-1P 929644-05-3P 929644-07-5P
929644-09-7P 929644-11-1P 929644-13-3P 929644-15-5P
929644-17-7P 929644-19-9P 929644-22-4P 929644-24-6P
929709-49-9P 929876-15-3P

(photoreactive compds. and polymers having 2 aromatic rings connected
by vinyl group for alignment of liquid crystals)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L12 ANSWER 3 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1117855 HCAPLUS Full-text

DOCUMENT NUMBER: 145:438998

TITLE: Curable compounds forming hydrolysis-resistant
polymer products, preparation thereof, and
compositions therewith

INVENTOR(S): Fukada, Akihiko

PATENT ASSIGNEE(S): Nippon Shokubai Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2006290790	A	20061026	JP 2005-113139	20050411
PRIORITY APPLN. INFO.:			JP 2005-113139	20050411

ED Entered STN: 26 Oct 2006

AB Compds. H₂C:CR₁CONR₂R₃OH (R₁ = H, Me; R₂ = H, C₁-6 alkyl; R₃ = C₂-6 alkylene)
are reacted with vinyl ethers to afford title compds. (i.e., monomers). The
Markush compds. above may be N-hydroxyethyl(meth)acrylamide. Compns. of the
monomers and basic compds., for inks, coatings, adhesives, etc., are also
claimed. Thus, 115 g N-hydroxyethylacrylamide was reacted with 131 g
triethylene glycol divinyl ether in the presence of 4-hydroxy-2,2,6,6-
tetramethylpiperidine-N-oxyl and HCl at 30° to give a compound (NMR and IR
chart given).

IT ~~913079-01-3P~~

(preparation of acrylamidoalkyl-bearing curable compds. forming polymers
with excellent hydrolysis resistance)

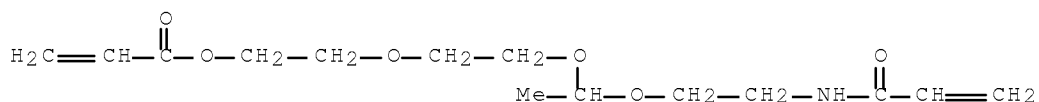
RN 913079-01-3 HCAPLUS

CN 2-Propenoic acid, 7-methyl-12-oxo-3,6,8-trioxa-11-azatetradec-13-en-1-
yl ester, homopolymer (9CI) (CA INDEX NAME)

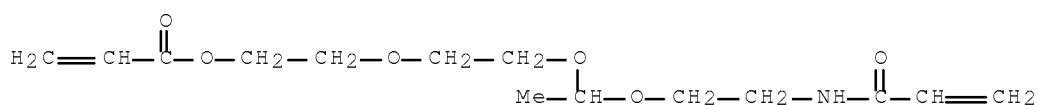
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CRN 913078-98-5

CMF C14 H23 N O6



IT 913078-98-5P
 (preparation of acrylamidoalkyl-bearing curable compds. forming polymers with excellent hydrolysis resistance)
 RN 913078-98-5 HCAPLUS
 CN 2-Propenoic acid, 7-methyl-12-oxo-3,6,8-trioxa-11-azatetradec-13-en-1-yl ester (CA INDEX NAME)



CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 37, 38
 IT 913078-99-6P 913079-00-2P 913079-01-3P
 (preparation of acrylamidoalkyl-bearing curable compds. forming polymers with excellent hydrolysis resistance)
 IT 913078-96-3P 913078-97-4P 913078-98-5P
 (preparation of acrylamidoalkyl-bearing curable compds. forming polymers with excellent hydrolysis resistance)

L12 ANSWER 4 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:513615 HCAPLUS Full-text

DOCUMENT NUMBER: 145:9680

TITLE: Copolymerizable methine and anthraquinone compounds and articles containing them

INVENTOR(S): Pearson, Jason Clay; Weaver, Max Allen; Fleischer, Jean Carroll; King, Gregory Allan

PATENT ASSIGNEE(S): Advanced Medical Optics, Inc., USA

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006057824	A2	20060601	WO 2005-US40897	20051110
WO 2006057824	A3	20061005		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
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BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

AU 2005309912	A1	20060601	AU 2005-309912	20051110
CA 2588528	A1	20060601	CA 2005-2588528	20051110
US 20060115516	A1	20060601	US 2005-271382	20051110
EP 1815274	A2	20070808	EP 2005-825349	20051110

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

JP 2008520352	T	20080619	JP 2007-543134	20051110
BR 2005018030	A	20081028	BR 2005-18030	20051110
US 20090076235	A1	20090319	US 2008-257277	20081023

PRIORITY APPLN. INFO.: US 2004-629556P P 20041122

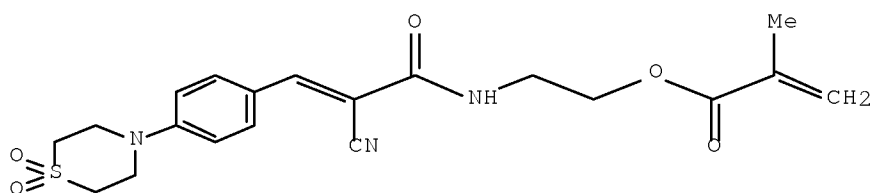
US 2005-271382 A1 20051110

WO 2005-US40897 W 20051110

OTHER SOURCE(S): CASREACT 145:9680

ED Entered STN: 01 Jun 2006

GI



I

AB Polymerizable compds. having anthraquinone groups or methine groups attached to furan rings ortho to the O, Ph rings with substituted N or O para to the attachment are useful for manufacture of polymeric UV light absorbers and yellow colorants for use in ophthalmic lenses. A typical compound I was manufactured by reaction of Me cyanoacetate with ethanolamine, reaction of the resulting N-(2-hydroxyethyl)cyanoacetamide with N-(p-formylphenyl)thiomorpholine S,S-dioxide, and esterification of the terminal OH group of the 2nd intermediate with methacrylic anhydride.

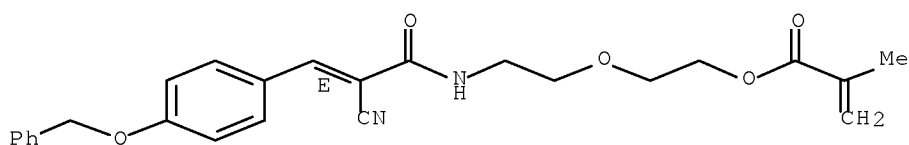
IT 1057003-67-4

(Copolymerizable methine and anthraquinone compounds and articles containing them)

RN 1057003-67-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[2-[[[(2E)-2-cyano-1-oxo-3-[4-(phenylmethoxy)phenyl]-2-propen-1-yl]amino]ethoxy]ethyl ester (CA INDEX NAME)

Double bond geometry as shown.



CC 41-6 (Dyes, Organic Pigments, Fluorescent Brighteners, and
Photographic Sensitizers)

Section cross-reference(s): 38, 63

IT 94-21-3 17354-79-9 1057003-36-7 1057003-37-8 1057003-38-9
 1057003-39-0 1057003-40-3 1057003-41-4 1057003-42-5
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 1057003-87-8 1057003-88-9 1057003-89-0 1057003-90-3
 1057003-91-4 1057003-92-5 1057003-93-6 1057003-94-7
 1057003-95-8 1057003-96-9 1057003-97-0 1057003-98-1
 1057003-99-2 1057004-00-8 1057004-01-9 1057004-02-0
 1057004-03-1 1057004-04-2 1057004-05-3 1057004-06-4
 1057004-07-5 1057004-08-6 1057004-09-7 1057004-10-0
 1057004-11-1 1057004-12-2 1107648-06-5 1107648-28-1
 1107648-57-6 1107648-67-8

(Copolymerizable methine and anthraquinone compounds and articles
containing them)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L12 ANSWER 5 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1123809 HCAPLUS Full-text

DOCUMENT NUMBER: 143:411051

TITLE: Bioresponsive polymer system for delivery of
microbicides

INVENTOR(S): Kiser, Patrick F.; Katz, David F.; Stewart,
Russell J.

PATENT ASSIGNEE(S): The University of Utah Research Foundation, USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005097210	A1	20051020	WO 2005-US10285	20050328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,				

10/576,892

KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
 MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
 SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ,
 VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,
 NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
 GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2005231738 A2 20051020 AU 2005-231738 20050328
 AU 2005231738 A1 20051020
 CA 2561174 A1 20051020 CA 2005-2561174 20050328
 EP 1737500 A1 20070103 EP 2005-726158 20050328
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
 US 20070166382 A1 20070719 US 2006-594196 20060925
 PRIORITY APPLN. INFO.: US 2004-556796P P 20040326
 WO 2005-US10285 W 20050328

ED Entered STN: 20 Oct 2005

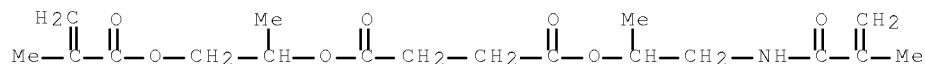
AB The polymer systems of the present invention degrade in the presence of an ejaculate. They may further provide degradable sequences that degrade upon contact with an ejaculate and/or microbicides. The polymer systems of the present invention are of use in the oral, rectal or vaginal cavities of an individual for such purposes as the treatment or prevention of sexually transmitted disease, the prevention or promotion of fertility or for hormone replacement therapy. Poly(hydroxypropylmethacrylate-nitrophenylcarbonate) was crosslinked with PEG-NH₂-PRO-Phe-Arg-Gly-OH to obtain a gel. The above gel was completely degraded in 3 days when incubated in 3 fresh aliquots of seminal fluid every 24 h.

IT ~~867061-41-4P~~

(bioresponsive polymer system for delivery of microbicides)

RN 867061-41-4 HCAPLUS

CN Butanedioic acid, 1-[1-methyl-2-[(2-methyl-1-oxo-2-propen-1-yl)amino]ethyl] 4-[1-methyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl] ester (CA INDEX NAME)



IT ~~867061-43-6P~~

(bioresponsive polymer system for delivery of microbicides)

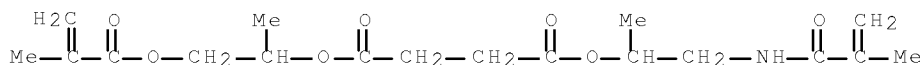
RN 867061-43-6 HCAPLUS

CN Butanedioic acid, 1-methyl-2-[(2-methyl-1-oxo-2-propenyl)amino]ethyl 1-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 867061-41-4

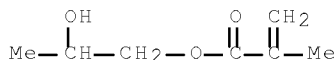
CMF C18 H27 N O7



CM 2

CRN 923-26-2

CMF C7 H12 O3



IC ICM A61K051-00

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 38

IT 7397-62-8P, Butyl glycolate 107194-33-2P 865135-86-0P
 867061-36-7P 867061-39-0P ~~867061-41-4P~~ 867061-50-5DP,
 ethoxylated derivs., polymers with methacrylic monomers 867061-50-5P
 (bioresponsive polymer system for delivery of microbicides)
 IT 67703-97-3P 147369-81-1P ~~867061-43-6P~~ 867061-46-9P
 867061-48-1DP, polymers with ethoxylated peptides 867061-49-2P
 (bioresponsive polymer system for delivery of microbicides)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L12 ANSWER 6 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:563437 HCAPLUS Full-text

DOCUMENT NUMBER: 143:97824

TITLE: (Meth)acrylates of unsaturated aminoalcohols and
 their production.

INVENTOR(S): Hermeling, Dieter; Daniel, Thomas; Elliot, Mark;
 Riegel, Ulrich; Dietsche, Frank; Schwalm, Reinhold

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 25 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10355401	A1	20050630	DE 2003-10355401	20031125
WO 2005058987	A1	20050630	WO 2004-EP13064	20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,				

AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL,
 PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
 GQ, GW, ML, MR, NE, SN, TD, TG

EP 1689796 A1 20060816 EP 2004-797969 20041118
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

CN 1886435 A 20061227 CN 2004-80034837 20041118
 CN 100374473 C 20080312
 JP 2007516240 T 20070621 JP 2006-540312 20041118
 US 20070043191 A1 20070222 US 2006-576892 20060424
 PRIORITY APPLN. INFO.: DE 2003-10355401 A 20031125

WO 2004-EP13064 W 20041118

OTHER SOURCE(S): MARPAT 143:97824

ED Entered STN: 30 Jun 2005

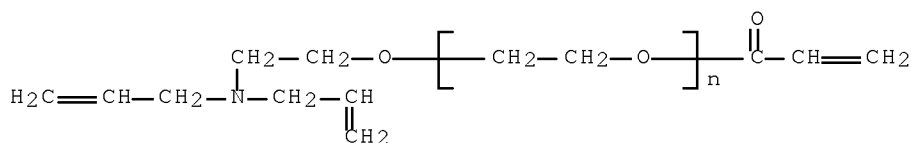
AB (Meth)acrylates of unsatd. aminoalcs. (such as diallylamine, allylamine and allylmethylamine) prepared by reacting allylaminopolyether with (meth)acrylates in the presence of esterification catalysts are used as a crosslinking agent for manufacture of crosslinked swellable hydrogel-forming polymers (superabsorbing polymers) from hydrophilic monomers.

IT 856221-40-4F 856221-41-5F

(crosslinker; (meth)acrylates of unsatd. aminoalcs. prepared by reacting allylaminopolyether with (meth)acrylates as a crosslinker swellable hydrogel-forming polymers)

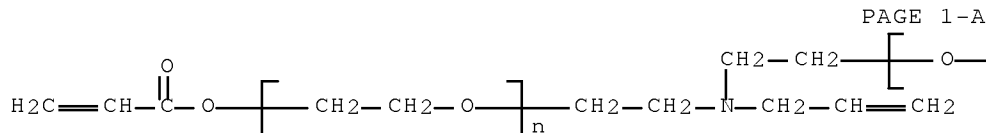
RN 856221-40-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -(1-oxo-2-propenyl)- ω -[2-(di-2-propenylamino)ethoxy]- (9CI) (CA INDEX NAME)

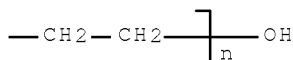


RN 856221-41-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), ω -hydroxy- ω' -[(1-oxo-2-propenyl)oxy]- α , α' -[(2-propenylimino)di-2,1-ethanediyl]bis- (9CI) (CA INDEX NAME)



PAGE 1-A



IC ICM C07C219-08
 ICS C07C213-06; C08F283-01; A61L015-22
 CC 35-5 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 23
 IT ~~856221-40-4P~~ 856221-41-5P
 (crosslinker; (meth)acrylates of unsatd. aminoalcs. prepared by
 reacting allylaminopolyether with (meth)acrylates as a crosslinker
 swellable hydrogel-forming polymers)

L12 ANSWER 7 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:822755 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:340487
 TITLE: Optical data carrier with polymer network in
 information layer
 INVENTOR(S): Berneth, Horst; Bruder, Friedrich-Karl; Hagen,
 Rainer; Hassenrueck, Karin; Kostromine, Serguei;
 Krueger, Christa Maria; Meyer-Friedrichsen, Timo;
 Oser, Rafael; Stawitz, Josef-Walter
 PATENT ASSIGNEE(S): Bayer Chemicals A.-G., Germany
 SOURCE: Ger. Offen., 131 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10313173	A1	20041007	DE 2003-10313173	20030325
WO 2004086390	A1	20041007	WO 2004-EP2585	20040312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1611574	A1	20060104	EP 2004-719936	20040312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
CN 1764962	A	20060426	CN 2004-80008219	20040312
JP 2006521220	T	20060921	JP 2006-500060	20040312
US 20070042295	A1	20070222	US 2005-549100	20050913
PRIORITY APPLN. INFO.:			DE 2003-10313173	A 20030325
			WO 2004-EP2585	W 20040312

ED Entered STN: 08 Oct 2004

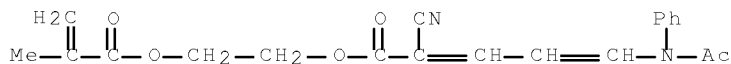
AB The invention relates to an optical data storage device with at least one information layer, wherein the information layer contains the polymer network with covalent bonded light-absorbable compds. Monomers for the polymer network are prepared

IT 769934-77-2P 769934-78-3P

(monomer preparation for polymer network; optical data carrier with polymer network in information layer)

RN 769934-77-2 HCAPLUS

CN 2,4-Pentadienoic acid, 5-(acetylphenylamino)-2-cyano-,
2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



RN 769934-78-3 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-[(2-hydroxyethyl)methylamino]-,
2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



IT 769934-93-2P 769935-06-0P

(polymer network preparation; optical data carrier with polymer network in information layer)

RN 769934-93-2 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-[(2-hydroxyethyl)methylamino]-,
2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 769934-78-3

CMF C15 H20 N2 O5



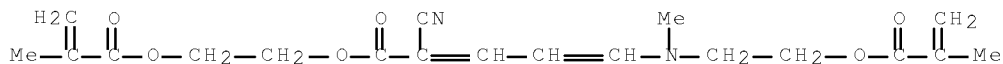
RN 769935-06-0 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-[methyl[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 769935-05-9

CMF C19 H24 N2 O6



IC ICM G11B007-24
 CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 IT 4485-89-6P 5807-04-5P 16672-33-6P 17739-45-6P 19660-17-4P
 21115-26-4P 21761-72-8P 28799-82-8P 42271-11-4P 86219-64-9P
 111653-59-9P 126858-63-7P 170297-67-3P 174097-08-6P
 769934-49-8P 769934-50-1P 769934-51-2P 769934-52-3P
 769934-53-4P 769934-54-5P 769934-55-6P 769934-56-7P
 769934-57-8P 769934-58-9P 769934-59-0P 769934-60-3P
 769934-61-4P 769934-62-5P 769934-63-6P 769934-64-7P
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 769934-69-2P 769934-70-5P 769934-71-6P 769934-72-7P
 769934-73-8P 769934-74-9P 769934-75-0P 769934-76-1P
~~769934-77-2P~~ ~~769934-78-3P~~ 769934-79-4P
 769934-80-7P 769934-81-8P 769934-82-9P
 (monomer preparation for polymer network; optical data carrier with polymer network in information layer)
 IT 769934-83-0P 769934-85-2P 769934-86-3P 769934-87-4P
 769934-88-5P 769934-90-9P 769934-91-0P 769934-92-1P
~~769934-93-2P~~ 769934-95-4P 769934-97-6P 769934-99-8P
 769935-00-4P 769935-01-5P 769935-02-6P 769935-04-8P
~~769935-06-0P~~
 (polymer network preparation; optical data carrier with polymer network in information layer)
 L12 ANSWER 8 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:934985 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:89730
 TITLE: Synthesis and characterization of terpolymer of poly(ethylene oxide) macromonomer and acrylamide and methyl methacrylate
 AUTHOR(S): Sun, Li-lin; Feng, Song; Li, Qing-hai; Shen, Liang-jun
 CORPORATE SOURCE: College of Chemistry and Materials Science, Anhui Normal Univ., Wuhu, 241000, Peop. Rep. China
 SOURCE: Anhui Shifan Daxue Xuebao, Ziran Kexueban (2003), 26(3), 249-252
 CODEN: ASDXA8
 PUBLISHER: Anhui Shifan Daxue Xuebao Bianjibu
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 ED Entered STN: 01 Dec 2003
 AB Ethylene oxide was polymerized with an anion initiator of Na sulfadiazine and end-capped with methacrylic acid chloride to prepare a macromonomer, which was radically polymerized with the title monomers. The terpolymer had water contact angle 24° and formed films easily using chloroform as a solvent.
 IT ~~714249-68-0P~~
 (synthesis and characterization of poly(ethylene oxide) macromonomer and polymers with acrylamide and Me methacrylate)
 RN 714249-68-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -[2-[[[4-[(2-methyl-1-oxo-2-

10/576,892

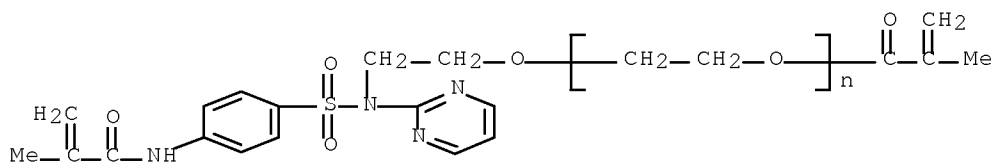
propenyl)amino]phenyl]sulfonyl]-2-pyrimidinylamino]ethoxy]poly(oxy-1,2-ethanediyl) and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 714249-67-9

CMF (C2 H4 O)_n C20 H22 N4 O5 S

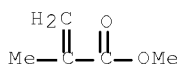
CCI PMS



CM 2

CRN 80-62-6

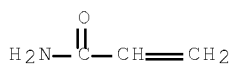
CMF C5 H8 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O

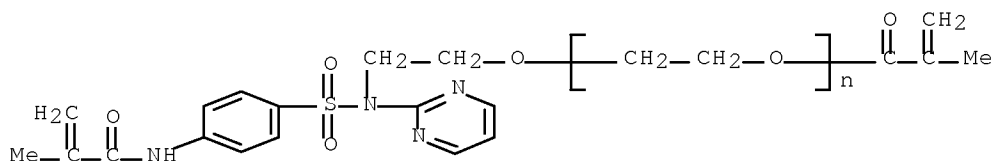


IT 714249-67-9P

(synthesis and characterization of poly(ethylene oxide)
macromonomer and polymers with acrylamide and Me methacrylate)

RN 714249-67-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -(2-methyl-1-oxo-2-propenyl)- ω -
[2-[[[4-[(2-methyl-1-oxo-2-propenyl)amino]phenyl]sulfonyl]-2-
pyrimidinylamino]ethoxy]- (9CI) (CA INDEX NAME)

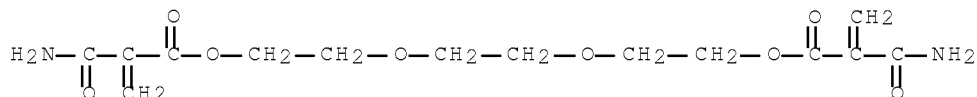


CC 37-3 (Plastics Manufacture and Processing)
 IT 714249-68-0F
 (synthesis and characterization of poly(ethylene oxide)
 macromonomer and polymers with acrylamide and Me methacrylate)
 IT 714249-67-9F
 (synthesis and characterization of poly(ethylene oxide)
 macromonomer and polymers with acrylamide and Me methacrylate)

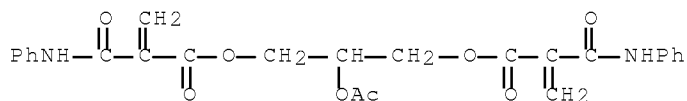
L12 ANSWER 9 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:484355 HCAPLUS Full-text
 DOCUMENT NUMBER: 133:112451
 TITLE: Heat development photosensitive material for
 printing platemaking
 INVENTOR(S): Muramatsu, Yasuhiko
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000199936	A	20000718	JP 1999-1159	19990106
PRIORITY APPLN. INFO.:			JP 1999-1159	19990106

ED Entered STN: 18 Jul 2000
 AB The title photosensitive material contains, on a support, an organic Ag salt, photosensitive Ag halide grains, a reducing agent, and either (1) a compound having ≥ 2 cyclic acid anhydride groups, (2) a compound having ≥ 2 acetal groups, or (3) a compound having ≥ 2 2-substituted acrylate groups or (4) ≥ 1 carbodiimide compound and ≥ 1 acid anhydride. The material shows improved film strength and storage stability and high contrast even upon storage for a long time.
 IT 283595-24-4 283595-26-6
 (photothermog. material containing acid anhydride, acetal compound, acrylate, or carbodiimide)
 RN 283595-24-4 HCAPLUS
 CN 2-Propenoic acid, 2-(aminocarbonyl)-,
 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester (9CI) (CA INDEX NAME)



RN 283595-26-6 HCAPLUS
 CN 2-Propenoic acid, 2-[(phenylamino)carbonyl]-,
 2-(acetyloxy)-1,3-propanediyl ester (9CI) (CA INDEX NAME)



IC ICM G03C001-498
 CC 74-7 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 IT 64-19-7, Acetic acid, uses 65-85-0, Benzoic acid, uses 76-05-1, Perfluoroacetic acid, uses 79-09-4, Propanoic acid, uses 85-43-8 85-44-9, 1,3-Isobenzofurandione 88-99-3, Phthalic acid, uses 89-05-4, 1,2,4,5-Benzenetetracarboxylic acid 89-32-7 98-11-3, Benzenesulfonic acid, uses 104-15-4, 4-Methylbenzenesulfonic acid, uses 108-30-5, uses 108-55-4 124-04-9, Hexanedioic acid, uses 124-07-2, Octanoic acid, uses 538-75-0 622-16-2 632-58-6, Tetrachlorophthalic acid 1732-96-3 1732-97-4 1892-57-5 2421-28-5 3543-39-3 4037-32-5 4316-23-8, 4-Methylphthalic acid 4436-49-1 5763-49-5 10029-40-0 15580-20-8 19438-59-6 19438-61-0 23276-18-8 27550-59-0 73003-90-4 98306-27-5 109359-61-7 188957-14-4 240812-03-7 283594-95-6 283594-96-7 283594-97-8 283594-98-9 283594-99-0 283595-00-6 283595-01-7 283595-02-8 283595-03-9 283595-04-0 283595-05-1 283595-06-2 283595-08-4 283595-09-5 283595-10-8 283595-11-9 283595-12-0 283595-13-1 283595-14-2 283595-15-3 283595-16-4 283595-17-5 283595-18-6 283595-19-7 283595-20-0 283595-21-1 283595-22-2 283595-23-3 ~~283595-24-4~~ 283595-25-5 ~~283595-26-6~~ 283595-27-7
 (photothermog. material containing acid anhydride, acetal compound, acrylate, or carbodiimide)

L12 ANSWER 10 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1998:250647 HCAPLUS Full-text
 DOCUMENT NUMBER: 128:271471
 ORIGINAL REFERENCE NO.: 128:53725a,53728a
 TITLE: Production of an article coated with a crosslinked pressure-sensitive adhesive
 INVENTOR(S): Winslow, Louis E.; Bennett, Gregory S.; Babu, Gaddam N.; Hattam, Paul; Tumey, Michael L.; Velamakanni, Bhaskar V.
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
 SOURCE: U.S., 17 pp., Cont.-in-part of U.S. Ser. No. 386,890, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

10/576,892

US 5741543 A 19980421 US 1996-676366 19960718
WO 9624644 A1 19960815 WO 1996-US1827 19960209
W: CA, JP, KR, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
PRIORITY APPLN. INFO.: US 1995-386890 B2 19950210
WO 1996-US1827 W 19960209

OTHER SOURCE(S): MARPAT 128:271471

ED Entered STN: 02 May 1998

AB A composition is coated onto a substrate and crosslinked so as to form a pressure-sensitive adhesive (PSA), by polymerizing free radically polymerizable monomers having pendent unsatn. in the polymer component, other unsatd. monomer, photoinitiator, optionally tackifier, plasticizer, inhibitor, and chain transfer agent. A PSA adhesive was prepared by polymerizing isooctyl acrylate, isobornyl acrylate, and acrylic acid to give a syrup, reacting with aziridinyl functional acrylate monomer, coating onto a PET film, and photocrosslinking.

IT 181884-43-5P 205496-34-0P

(crosslinked pressure-sensitive adhesive)

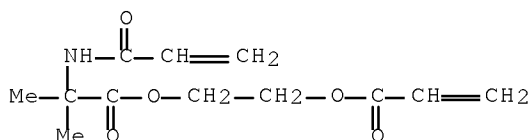
RN 181884-43-5 HCAPLUS

CN Alanine, 2-methyl-N-(1-oxo-2-propenyl)-, 2-[(1-oxo-2-propenyl)oxy]ethyl ester, polymer with isooctyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 181884-42-4

CMF C12 H17 N O5

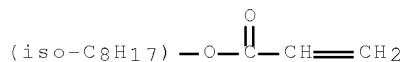


CM 2

CRN 29590-42-9

CMF C11 H20 O2

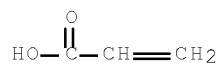
CCI IDS



CM 3

CRN 79-10-7

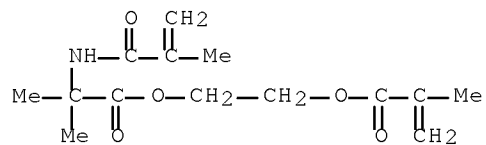
CMF C3 H4 O2



RN	205496-34-0	HCAPLUS
CN	Alanine, 2-methyl-N-(2-methyl-1-oxo-2-propenyl)-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with isooctyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)	

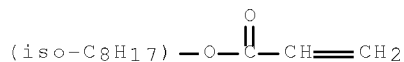
CM 1

CRN 205496-33-9
CMF C14 H21 N O5



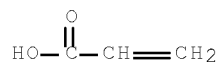
CM 2

CRN 29590-42-9
CMF C11 H20 O2
CCI IDS



CM 3

CRN 79-10-7
CMF C3 H4 O2



IC ICM B05D005-10
INCL 427208400
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 35, 42

10/576,892

IT 83133-95-3P 92094-52-5P 181884-20-8P 181884-22-0P 181884-24-2P
 181884-26-4P 181884-27-5P 181884-28-6P 181884-30-0P
 181884-32-2P 181884-34-4P 181884-38-8P 181884-40-2P
~~181884-43-5P~~ 181884-52-6P 181884-54-8P 181884-55-9P
 205496-32-8P ~~205496-34-0P~~ 205496-35-1P

(crosslinked pressure-sensitive adhesive)

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L12 ANSWER 11 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:810256 HCAPLUS Full-text

DOCUMENT NUMBER: 128:23255

ORIGINAL REFERENCE NO.: 128:4565a,4568a

TITLE: 2-Cyano-2,4-pentadienoic acid acrylic ester
 reactive monomers, manufacture thereof, adhesives,
 coatings, compositions, polymers, and
 electron-beam and photoresists using the same

INVENTOR(S): Kotzev, Dimiter Lubomirov

PATENT ASSIGNEE(S): Chemence Limited, UK

SOURCE: Brit. UK Pat. Appl., 22 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2311520	A	19971001	GB 1996-6328	19960326
GB 2311520	B	19990811		
US 20040249099	A1	20041209	US 2004-802074	20040315
US 7125942	B2	20061024		
PRIORITY APPLN. INFO.:			GB 1996-6328	A 19960326
			US 1997-55791P	P 19970815
			US 1998-131275	B1 19980810

OTHER SOURCE(S): MARPAT 128:23255

ED Entered STN: 01 Jan 1998

AB The title esters CH₂:CHCH:C(CN)CO₂R2O₂CCR1:CH₂ (R1 = H, Me; R2 = alkyl, alkenyl, alkynyl, alkoxyalkyl, polyoxyalkyl, aryl, cycloalkyl, heterocyclic, with or without substituents including halogens) are synthesized by reaction of acrolein with the corresponding (meth)aryloyl(poly)oxyalkyl cyanoacetates. The resultant reactive monomers containing multiple unsatn. are capable of anionic, cationic and free-radical polymerization yielding from rubbery or thermoplastic to highly crosslinked products depending on the degree of cure. The reactive monomers can be used for structural adhesives both in industry and medicine, for coatings, and in photo or electron beam resist manufacture

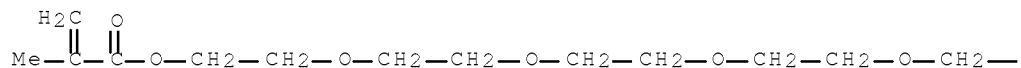
IT ~~199331-04-9P~~

(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

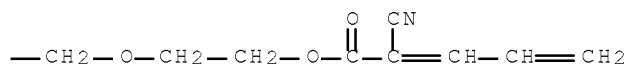
RN 199331-04-9 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-,
 20-methyl-19-oxo-3,6,9,12,15,18-hexaoxaheneicos-20-en-1-yl ester (CA
 INDEX NAME)

PAGE 1-A



PAGE 1-B



IT 199331-05-0P 199331-06-1P 199331-07-2P
 (cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

RN 199331-05-0 HCAPLUS

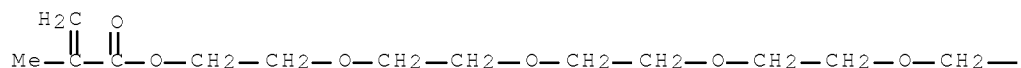
CN 2,4-Pentadienoic acid, 2-cyano-,
 20-methyl-19-oxo-3,6,9,12,15,18-hexaoxaheneicos-20-en-1-yl ester,
 homopolymer (9CI) (CA INDEX NAME)

CM 1

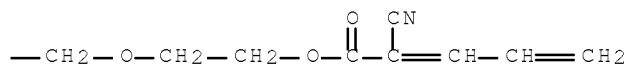
CRN 199331-04-9

CMF C22 H33 N O9

PAGE 1-A



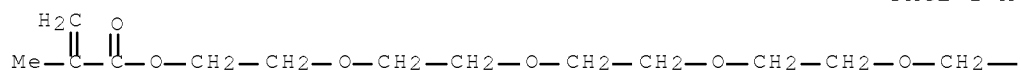
PAGE 1-B

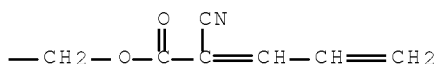


RN 199331-06-1 HCAPLUS

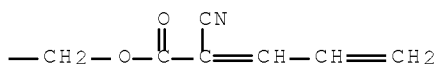
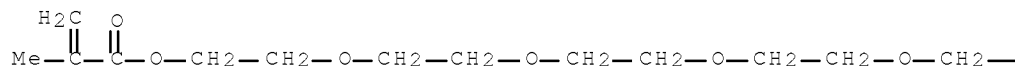
CN 2,4-Pentadienoic acid, 2-cyano-,
 17-methyl-16-oxo-3,6,9,12,15-pentaoxaoctadec-17-en-1-yl ester (CA INDEX NAME)

PAGE 1-A





RN 199331-07-2 HCAPLUS
 CN 2,4-Pentadienoic acid, 2-cyano-,
 17-methyl-16-oxo-3,6,9,12,15-pentaoxaoctadec-17-en-1-yl ester,
 homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 199331-06-1
 CMF C20 H29 N O8



IC ICM C07C255-07
 ICS C08F020-50
 CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 23, 38, 42, 74
 IT 53628-79-8P 199331-02-7P ~~199331-04-9P~~ 199342-78-4P
 199342-82-0P
 (cyanopentadienoic acid acrylic ester reactive monomers, manufacture
 thereof, adhesives, coatings, compns., polymers, and electron-beam
 and photoresists using the same)
 IT 199331-01-6P 199331-03-8P ~~199331-05-0P~~
~~199331-06-1P~~ 199331-07-2P 199342-80-8P
 199342-84-2P
 (cyanopentadienoic acid acrylic ester reactive monomers, manufacture
 thereof, adhesives, coatings, compns., polymers, and electron-beam
 and photoresists using the same)

L12 ANSWER 12 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:374148 HCAPLUS Full-text

DOCUMENT NUMBER: 126:349707

ORIGINAL REFERENCE NO.: 126:67883a,67886a

TITLE: Preparing printing plates by electrophotography

INVENTOR(S): Kato, Eiichi; Nakazawa, Yusuke; Ishii, Kazuo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Brit. UK Pat. Appl., 248 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
GB 2302063	A	19970108	GB 1996-12258	19960612
GB 2302063	B	19990203		
US 5700612	A	19971223	US 1996-661723	19960611
JP 09062038	A	19970307	JP 1996-151364	19960612
PRIORITY APPLN. INFO.:			JP 1995-144885	A 19950612

ED Entered STN: 14 Jun 1997

AB Printing plates are prepared by forming a toner image on a peelable transfer layer containing a resin, capable of being removed by chemical reaction, on an electrophotog. light-sensitive element, providing an adhesive layer containing a thermoplastic resin only on the toner image, transferring the toner image together with the transfer layer and the adhesive layer from the element to a temporary receptor, transferring the toner image with the layers to a receiving material with a hydrophilic surface, and partially removing the transfer layer by chemical reaction. Printing plates which produce good prints can be obtained for a long period of time even when the thickness of the transfer layer is reduced or the transfer is conducted under low temperature, low pressure, and high speed.

IT 188950-82-5, Benzyl methacrylate;dodecyl methacrylate;2-[2-(hexyloxy)ethoxy]ethyl methacrylate;2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 11-[(2-methyl-1-oxo-2-propenyl)amino]undecanoate;2-sulfoethyl methacrylate graft copolymer
 (preparation and use in preparing transfer layers for electrophotog. photoreceptors for manufacture of printing plates)

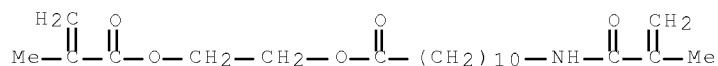
RN 188950-82-5 HCAPLUS

CN Undecanoic acid, 11-[(2-methyl-1-oxo-2-propenyl)amino]-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, 2-[2-(hexyloxy)ethoxy]ethyl 2-methyl-2-propenoate, phenylmethyl 2-methyl-2-propenoate and 2-sulfoethyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 188950-81-4

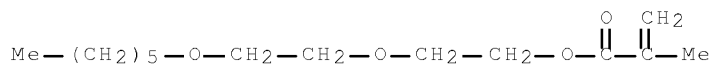
CMF C21 H35 N O5



CM 2

CRN 183317-57-9

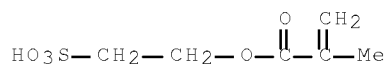
CMF C14 H26 O4



CM 3

CRN 10595-80-9

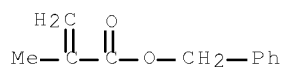
CMF C6 H10 O5 S



CM 4

CRN 2495-37-6

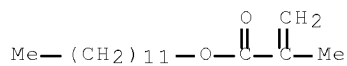
CMF C11 H12 O2



CM 5

CRN 142-90-5

CMF C16 H30 O2



IC ICM G03G013-28

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 26616-87-5, 1,3-Butadiene-styrene-vinyl acetate copolymer
 188950-63-2, Acrylic acid;benzyl methacrylate;bis(methacryoxyethyl) butandioate;2-butoxyethyl methacrylate;octadecyl methacrylate graft copolymer 188950-65-4, Acrylic acid;3-butoxypropyl methacrylate;hexadecyl methacrylate;octadecyl methacrylate;2-phenylethyl methacrylate graft copolymer 188950-67-6, 2-Carboxyethyl acrylate;2,3-diethoxypropyl methacrylate;dodecyl methacrylate;methyl methacrylate;5-[3-[(2-methyl-1-oxo-2-propenyl)oxy]-1-oxopropoxy]pentyl methacrylate graft copolymer 188950-68-7
 188950-69-8 188950-70-1 188950-71-2 188950-73-4 188950-74-5
 188950-75-6 188950-76-7 188950-77-8 188950-79-0 188950-80-3, Crotonic acid;ethenyl 2-[(1-oxo-2-propenyl)oxy]ethyl butanedioate;tridecyl methacrylate;vinyl acetate;vinyl valerate graft copolymer 188950-82-5, Benzyl methacrylate;dodecyl

methacrylate;2-[2-(hexyloxy)ethoxy]ethyl
 methacrylate;2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl
 11-[(2-methyl-1-oxo-2-propenyl)amino]undecanoate;2-sulfoethyl
 methacrylate graft copolymer 188950-83-6 188950-85-8 188950-86-9
 188950-88-1 188950-89-2 188950-90-5 188950-91-6 188950-92-7
 188950-93-8 188950-94-9 188950-95-0 188950-96-1 188950-97-2
 188950-99-4 188951-00-0 188951-01-1 188951-02-2 188951-03-3
 188951-04-4 188951-05-5 188951-06-6 188951-07-7 188951-08-8
 188951-09-9 188951-10-2 189120-14-7 189890-33-3

(preparation and use in preparing transfer layers for electrophotog.
 photoreceptors for manufacture of printing plates)

L12 ANSWER 13 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:607510 HCAPLUS Full-text

DOCUMENT NUMBER: 125:224057

ORIGINAL REFERENCE NO.: 125:41857a,41860a

TITLE: Process for the production of an article coated
 with a crosslinked pressure sensitive adhesive
 INVENTOR(S): Winslow, Louis E.; Bennett, Gregory S.; Babu,
 Gaddam N.; Hattam, Paul; Tumey, Michael L.;
 Velamakanni, Bhaskar V.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA

SOURCE: PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9624644	A1	19960815	WO 1996-US1827	19960209
W: CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2211130	A1	19960815	CA 1996-2211130	19960209
EP 808348	A1	19971126	EP 1996-905452	19960209
EP 808348	B1	19990506		
R: ES, FR, GB, IT				
JP 11500152	T	19990106	JP 1996-524469	19960209
ES 2133944	T3	19990916	ES 1996-905452	19960209
US 5741543	A	19980421	US 1996-676366	19960718
PRIORITY APPLN. INFO.:			US 1995-386890	A2 19950210
			WO 1996-US1827	W 19960209

OTHER SOURCE(S): MARPAT 125:224057

ED Entered STN: 12 Oct 1996

AB Substrates are coated with mixts. comprising pressure-sensitive adhesive
 polymers containing pendant unsatd. groups, 0-10,000 phr unsatd. monomer, and
 photochem. initiators, and crosslinked by exposing to energy. An adhesive was
 prepared by polymerizing isooctyl acrylate and acrylic acid to give a syrup,
 reacting with allyl 2-methacryloxyethylcarbamate, coating onto a PET film, and
 photocrosslinking.

IT ~~181884-43-5P~~ ~~181884-46-8P~~

(process for the production of an article coated with a crosslinked
 pressure sensitive adhesive)

RN 181884-43-5 HCAPLUS

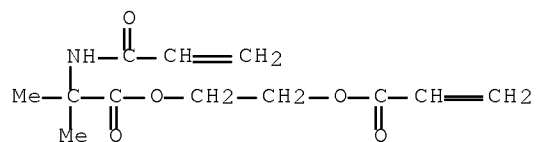
CN Alanine, 2-methyl-N-(1-oxo-2-propenyl)-,
 2-[(1-oxo-2-propenyl)oxy]ethyl ester, polymer with isooctyl
 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

10/576,892

CM 1

CRN 181884-42-4

CMF C12 H17 N O5

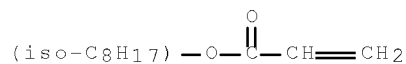


CM 2

CRN 29590-42-9

CMF C11 H20 O2

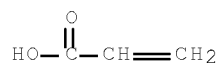
CCI IDS



CM 3

CRN 79-10-7

CMF C3 H4 O2



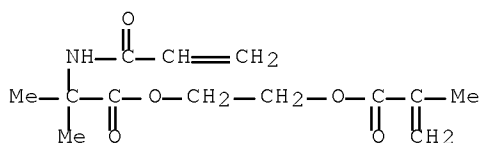
RN 181884-46-8 HCAPLUS

CN Alanine, 2-methyl-N-(1-oxo-2-propenyl)-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with isooctyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 181884-45-7

CMF C13 H19 N O5

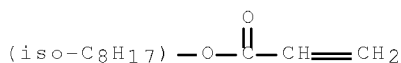


CM 2

CRN 29590-42-9

CMF C11 H20 O2

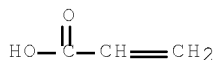
CCI IDS



CM 3

CRN 79-10-7

CMF C3 H4 O2



IC ICM C09J004-06

ICS C09J007-02

CC 38-3 (Plastics Fabrication and Uses)

IT 83133-95-3P 181884-20-8P 181884-22-0P 181884-24-2P

181884-26-4P 181884-27-5P 181884-28-6P 181884-30-0P

181884-32-2P 181884-34-4P 181884-36-6P 181884-38-8P

181884-40-2P ~~181884-43-5P~~ ~~181884-46-8P~~

181884-49-1P 181884-52-6P 181884-54-8P 181884-55-9P

(process for the production of an article coated with a crosslinked
pressure sensitive adhesive)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L12 ANSWER 14 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:440909 HCAPLUS Full-text

DOCUMENT NUMBER: 125:87452

ORIGINAL REFERENCE NO.: 125:16513a,16516a

TITLE: Removal of acidic impurities and acid precursors
from 2-cyanoacrylate ester monomers by passage
through a column containing a metal, a metal
oxide, or metal hydride.

INVENTOR(S): Dyatlov, Valery Alexandrovich; Maleev, Viktor;

Guseva, Tatiana
 PATENT ASSIGNEE(S): Saldane Ltd., Ire.
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9614292	A1	19960517	WO 1995-IE53	19951018
W: AM, AU, BR, CA, CN, DE, FI, GB, HU, JP, KP, KR, MX, NO, NZ, PL, RO, RU, UA, US				
RW: BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9537531	A	19960531	AU 1995-37531	19951018
PRIORITY APPLN. INFO.:			IE 1994-864	A 19941104
			WO 1995-IE53	W 19951018

ED Entered STN: 26 Jul 1996

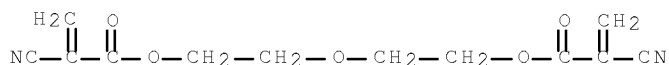
AB Non-enolizable esters, especially liquid non-distillable esters of 2-cyanoacrylic acid, are purified (to remove contaminating volatile acids and acid precursors) by passage through a metallic reagent, optionally dispersed on a solid insol. (inert or reactive) support, that reacts with and removes the acids or precursors. The metallic reagent is chosen from a metal, a metal oxide, and a non-reducing metal hydride (e.g., Li, Na, K, Ca, Al, Fe, MgO, CaO, Al₂O₃, CaH₂, etc.). The cyanoacrylate ester is dissolved in an inert solvent and then passed through the column at from -20° to 150° (preferably 20-40°) to prevent thermal reactions. After passage through the metallic reagent-containing bed, the purified cyanoacrylate ester monomer is stabilized by addition of a polymerization inhibitor.

IT 165177-64-0P 178886-11-8P

(purification of; by passage through reactive metal-containing column for removal of acidic impurities)

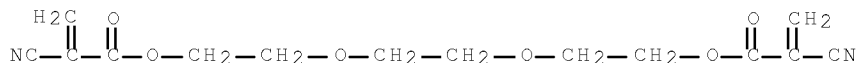
RN 165177-64-0 HCAPLUS

CN 2-Propenoic acid, 2-cyano-, oxydi-2,1-ethanediyl ester (9CI) (CA INDEX NAME)



RN 178886-11-8 HCAPLUS

CN 2-Propenoic acid, 2-cyano-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester (9CI) (CA INDEX NAME)



IC ICM C07C253-34

ICS C07C255-23; C07C253-34

CC 35-2 (Chemistry of Synthetic High Polymers)

10/576,892

IT 15802-18-3DP, esters 165177-61-7P ~~165177-64-0P~~
165177-65-1P 178886-10-7P ~~178886-11-8P~~

(purification of; by passage through reactive metal-containing column for removal of acidic impurities)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L12 ANSWER 15 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:693082 HCAPLUS Full-text

DOCUMENT NUMBER: 123:56820

ORIGINAL REFERENCE NO.: 123:10251a,10254a

TITLE: Preparation of esters of 2-cyanoacrylic acid and
use of the esters as adhesives

INVENTOR(S): Dyatlov, Valery Alexandrovich; Katz, Georgy
Arkadievich

PATENT ASSIGNEE(S): Eurotax Ltd., Ire.

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9415907	A1	19940721	WO 1994-IE2	19940110
W: AU, BG, BR, CA, CZ, FI, HU, JP, KR, NO, NZ, PL, RO, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9457142	A	19940815	AU 1994-57142	19940110
JP 08505383	T	19960611	JP 1994-515856	19940110
PRIORITY APPLN. INFO.:			RU 1993-1196	A 19930111
			IE 1993-599	A 19930810
			WO 1994-IE2	W 19940110

OTHER SOURCE(S): MARPAT 123:56820

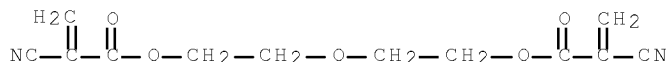
ED Entered STN: 22 Jul 1995

AB The title esters, including non-distillable esters, are prepared by reacting 2-cyanoacrylic acid (I) or an acid halide of I with an alc., diol, polyol, or phenol in the presence of an inert organic solvent under polymerization-inhibiting conditions (and also in the presence of an acid catalyst when I is a reactant), continually removing the water or H halide produced, and recovering the ester. The esters are useful in adhesive compns. and for linear and crosslinked polymers. A diester was prepared by reacting I with 1,8-octanediol in benzene containing p-toluenesulfonic acid and SO₂.

IT ~~165177-64-0P~~, Diethylene glycol bis(2-cyanoacrylate)
(preparation and uses of)

RN 165177-64-0 HCAPLUS

CN 2-Propenoic acid, 2-cyano-, oxydi-2,1-ethanediyl ester (9CI) (CA
INDEX NAME)



IC ICM C07C253-30
 CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 23, 25, 37
 IT 9003-17-2DP, Polybutadiene, hydroxy-terminated, cyanoacrylate esters
 10029-40-0P, Ethylene glycol bis(2-cyanoacrylate) 15802-18-3DP,
 2-Cyanoacrylic acid, esters with hydroxy-terminated polybutadiene
 60723-09-3P, 1,8-Octanediol bis(2-cyanoacrylate) 102375-54-2P,
 Hexadecyl 2-cyanoacrylate 132132-61-7DP, 2-Cyanoacryloyl chloride,
 esters with hydroxy-terminated polybutadiene 158275-95-7P,
 2-Carboxyethyl 2-cyanoacrylate 158312-77-7P, Polyethylene glycol
 mono(4-tert-octylphenyl) ether mono(2-cyanoacrylate) 165177-60-6P,
 Bisphenol A bis(2-cyanoacrylate) 165177-61-7P 165177-62-8P
 165177-63-9P ~~165177-64-0P~~, Diethylene glycol
 bis(2-cyanoacrylate) 165177-65-1P, Ethylene glycol
 mono(2-cyanoacrylate) monomethacrylate
 (preparation and uses of)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L12 ANSWER 16 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1995:677203 HCAPLUS Full-text
 DOCUMENT NUMBER: 123:145606
 ORIGINAL REFERENCE NO.: 123:25949a,25952a
 TITLE: Polymerizable enamines, their preparation and
 their use
 INVENTOR(S): Rheinberger, Volker; Moszner, Norbert; Salz,
 Ulrich
 PATENT ASSIGNEE(S): Ivoclar AG, Liechtenstein
 SOURCE: Eur. Pat. Appl., 17 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
EP 634393	A1	19950118	EP 1994-250166	19940624
EP 634393	B1	19970917		
R: CH, DE, FR, GB, IT, LI, NL				
DE 4323617	A1	19950119	DE 1993-4323617	19930712
JP 07206794	A	19950808	JP 1994-159038	19940711
JP 10025270	A	19980127	JP 1997-72503	19940711
PRIORITY APPLN. INFO.:			DE 1993-4323617	A 19930712
			JP 1994-159038	A3 19940711

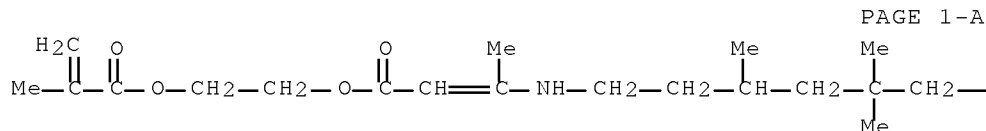
ED Entered STN: 15 Jul 1995
 AB The enamines R⁵CH:C(A)Q[R¹HX_m]lC(:Y)CH:C(R⁴)N(R²)R³Zn [I; A = H, alkyl; Q =
 CO₂, CONH, C₆H₄, arylene; R¹ = alkylene, oxyalkylene, C₆H₅, arylene; R² = H,
 alkyl, aryl; R³ = H, alkyl, aryl; (n = 0) alkylene, arylene; R⁴ = alkyl; R =
 H, Ph, CO₂H, carboxyalkyl, CN; X = O, S, NH; Y = O, S, Z = functional group; l
 = ≥1; m, n = 0, 1] are obtained from R⁵CH:C(A)Q[R¹HX_m]lC(:Y)CH₂C(:Y)R⁴ and
 R²NH₂, R²NHR³Zn, R³NHR²NHR³, or HN(R³Zn)R²NHR³Zn and may be used for the
 preparation of polymers and dental compns. Thus, 2-(acetoacetoxy)ethyl
 methacrylate was treated with BuNH₂ to give an enamine methacrylate which
 could be radically polymerized
 IT ~~164914-67-4P~~
 (enamine polymers for dental compns.)

10/576,892

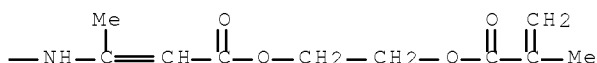
RN 164914-67-4 HCAPLUS
 CN 4,7-Dioxa-11,18-diazaheneicosa-9,19-dien-21-oic acid,
 2,10,13,13,15,19-hexamethyl-3,8-dioxo-,
 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with
 1,10-decanediyl bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 164914-66-3
 CMF C29 H46 N2 O8

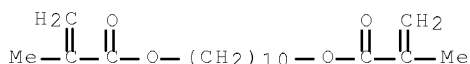


PAGE 1-B

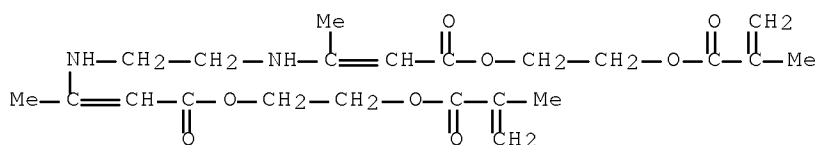


CM 2

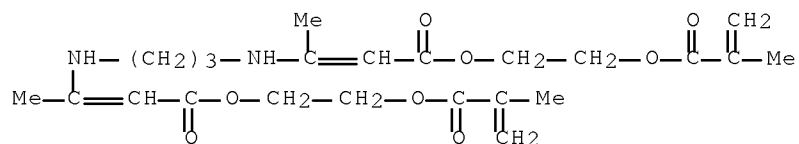
CRN 6701-13-9
 CMF C18 H30 O4



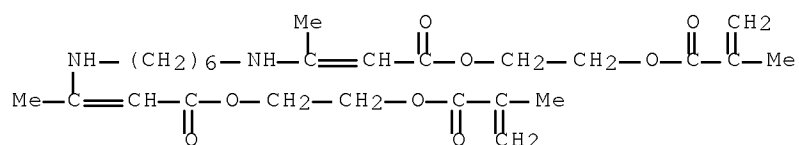
IT 155915-10-9P 155915-11-0P 155915-12-1P
 155915-13-2P 164914-66-3P
 (polymerizable enamines for dental compns.)
 RN 155915-10-9 HCAPLUS
 CN 11,14-Dioxa-4,7-diazaheptadeca-2,8,16-trienoic acid,
 3,8,16-trimethyl-10,15-dioxo-,
 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



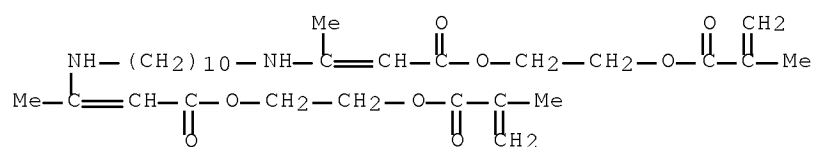
RN 155915-11-0 HCAPLUS
 CN 12,15-Dioxa-4,8-diazaoctadeca-2,9,17-trienoic acid,
 3,9,17-trimethyl-11,16-dioxo-,
 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



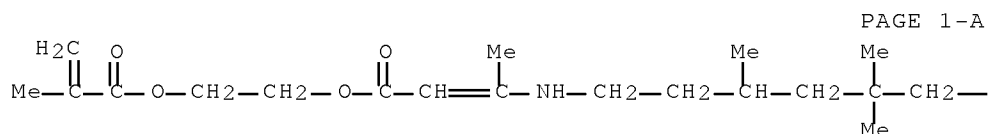
RN 155915-12-1 HCAPLUS
 CN 15,18-Dioxa-4,11-diazaheneicosa-2,12,20-trienoic acid,
 3,12,20-trimethyl-14,19-dioxo-,
 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



RN 155915-13-2 HCAPLUS
 CN 19,22-Dioxa-4,15-diazapentacosa-2,16,24-trienoic acid,
 3,16,24-trimethyl-18,23-dioxo-,
 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

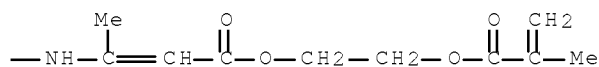


RN 164914-66-3 HCAPLUS
 CN 15,18-Dioxa-4,11-diazaheneicosa-2,12,20-trienoic acid,
 3,7,9,9,12,20-hexamethyl-14,19-dioxo-,
 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



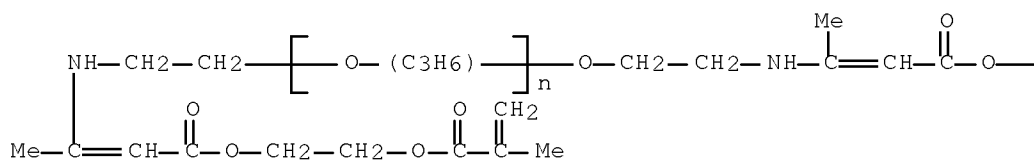
PAGE 1-A

PAGE 1-B



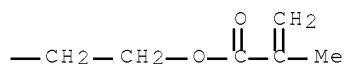
IT 156057-35-1P
 (polymerizable enamines for dental compns.)
 RN 156057-35-1 HCAPLUS
 CN Poly[oxy(methyl-1,2-ethanediyl)],
 α -[methyl-2-[[1-methyl-3-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-3-oxo-1-propenyl]amino]ethyl]- ω -[methyl-2-[[1-methyl-3-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-3-oxo-1-propenyl]amino]ethoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



2 (D1-Me)

PAGE 1-B



IC ICM C07C229-30
 ICS C08F020-36; C08F246-00; A61K006-083
 CC 37-3 (Plastics Manufacture and Processing)
 Section cross-reference(s): 38, 63
 IT 164914-67-4P
 (enamine polymers for dental compns.)
 IT 155915-03-0P 155915-04-1P 155915-05-2P 155915-06-3P
 155915-07-4P 155915-09-6P 155915-10-9P
 155915-11-0P 155915-12-1P 155915-13-2P
 164914-65-2P 164914-66-3P
 (polymerizable enamines for dental compns.)
 IT 155915-15-4P 156057-35-1P
 (polymerizable enamines for dental compns.)

L12 ANSWER 17 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1995:499837 HCAPLUS Full-text
 DOCUMENT NUMBER: 123:171988

ORIGINAL REFERENCE NO.: 123:30677a,30680a
 TITLE: Manufacture of polyhydric alcohol cyanoacrylates
 for heat-, water-, and solvent-resistant adhesives
 INVENTOR(S): Unno, Asako; Takahashi, Shin; Okuyama, Toshio
 PATENT ASSIGNEE(S): Toa Gosei Kk, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07033726	A	19950203	JP 1993-200180	19930721
PRIORITY APPLN. INFO.:			JP 1993-200180	19930721

OTHER SOURCE(S): MARPAT 123:171988

ED Entered STN: 20 Apr 1995

AB The title compds. are prepared by esterification of saponified α -cyanoacrylate-1,3-diene Diels-Alder adducts with polyhydric alcs., then thermal decomposition of the resulting polyhydric alc. cyanoacrylate-diene adducts. Thus, Et cyanoacrylate was reacted with cyclopentadiene in xylene at room temperature for 1 h, saponified with KOH at 60° for 1 h, esterified with decanediol in the presence of p-MeC₆H₄SO₃H and hydroquinone under reflux for 8 h, and refluxed in the presence of Me cyanoacrylate, hydroquinone, and p-MeC₆H₄SO₃H at 138° for 1 h to give 58.4% decanediol bis(cyanoacrylate) (I). An adhesive composition containing I showed good adhesiveness and solvent resistance.

IT 167356-82-3P

(adhesive; preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)

RN 167356-82-3 HCAPLUS

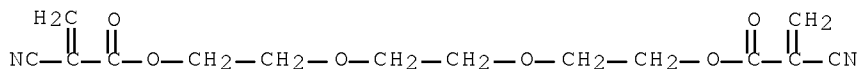
CN 2-Propenoic acid, 2-cyano-, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] ester, polymer with ethyl 2-cyano-2-propenoate (9CI)
 (CA INDEX NAME)

CM 1

CRN 167228-08-2

CMF C17 H22 N2 O6

CCI IDS

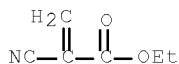


3 (D1—Me)

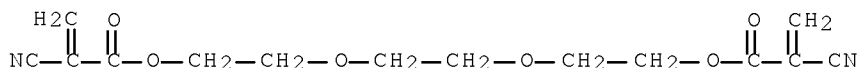
CM 2

CRN 7085-85-0

CMF C6 H7 N O2



IT 167228-08-2F
 (preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)
 RN 167228-08-2 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] ester (9CI) (CA INDEX NAME)



3 (D1-Me)

IC ICM C07C255-23
 ICS C07C253-30
 CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 23, 35
 IT 166657-25-6P 167356-82-3P
 (adhesive; preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)
 IT 60755-41-1P 167228-08-2F
 (preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)

L12 ANSWER 18 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:436228 HCAPLUS Full-text

DOCUMENT NUMBER: 121:36228

ORIGINAL REFERENCE NO.: 121:6719a,6722a

TITLE: Reaction behavior of monomeric β -ketoesters.
 2. Synthesis, characterization and polymerization of methacrylate group containing enamines

AUTHOR(S): Moszner, Norbert; Salz, Ulrich; Rheinberger, Volker

CORPORATE SOURCE: Ivoclar AG, Schaan, FL-9494, Liechtenstein

SOURCE: Polymer Bulletin (Berlin, Germany) (1994), 32(4), 419-26

CODEN: POBUDR; ISSN: 0170-0839

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 23 Jul 1994

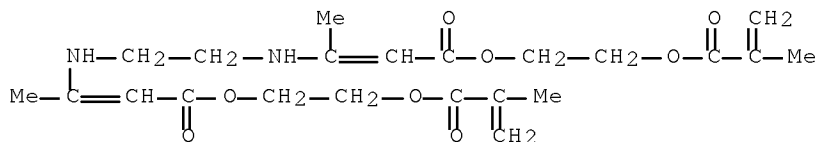
AB Polymerizable enamines were synthesized by the reaction of 2-acetoacetoxyethyl methacrylate (AAEMA) with various aliphatic mono- and diamines. The enamines were characterized by elemental analyses, IR, ^1H NMR and ^{13}C NMR spectroscopy. Radical polymerization of synthesized enamines yielded polymers with pendant enamine groups which were also prepared by the reaction of poly(AAEMA) with the corresponding amines.

IT 155915-10-9P 155915-11-0P 155915-12-1P
 155915-13-2P 155915-14-3P 156057-35-1P

(preparation and characterization of)

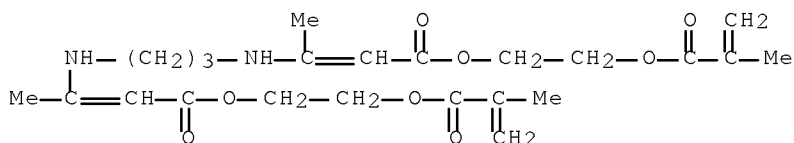
RN 155915-10-9 HCAPLUS

CN 11,14-Dioxa-4,7-diazaheptadeca-2,8,16-trienoic acid,
3,8,16-trimethyl-10,15-dioxo-,
2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



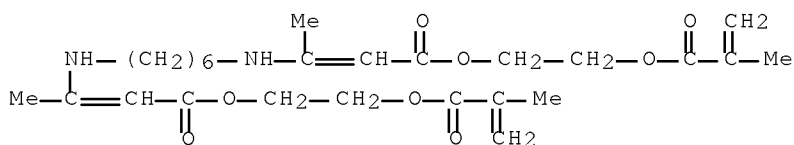
RN 155915-11-0 HCAPLUS

CN 12,15-Dioxa-4,8-diazaoctadeca-2,9,17-trienoic acid,
3,9,17-trimethyl-11,16-dioxo-,
2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



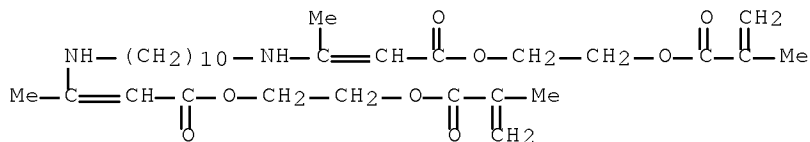
RN 155915-12-1 HCAPLUS

CN 15,18-Dioxa-4,11-diazaheneicosa-2,12,20-trienoic acid,
3,12,20-trimethyl-14,19-dioxo-,
2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

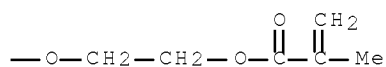
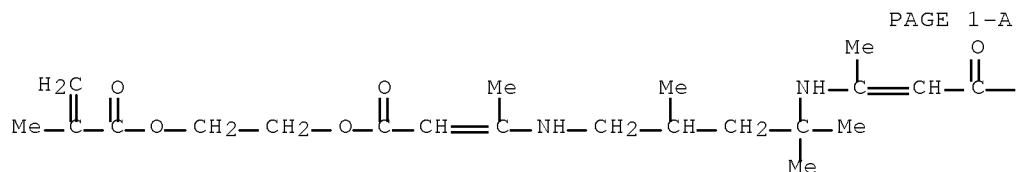


RN 155915-13-2 HCAPLUS

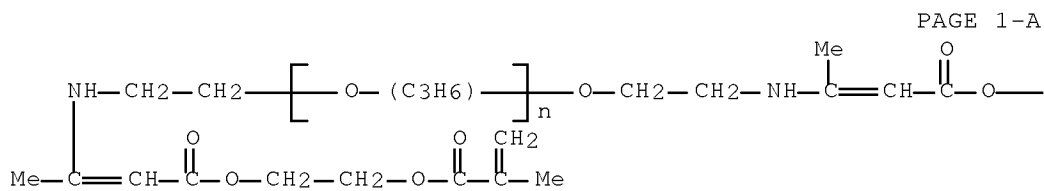
CN 19,22-Dioxa-4,15-diazapentacosa-2,16,24-trienoic acid,
3,16,24-trimethyl-18,23-dioxo-,
2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



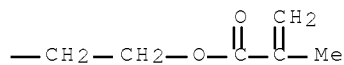
RN 155915-14-3 HCAPLUS
 CN 13,16-Dioxa-4,9-diazanonadeca-2,10,18-trienoic acid,
 3,6,8,8,10,18-hexamethyl-12,17-dioxo-,
 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)



RN 156057-35-1 HCAPLUS
 CN Poly[oxy(methyl-1,2-ethanediyl)],
 α -[methyl-2-[[1-methyl-3-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-3-oxo-1-propenyl]amino]ethyl]- ω -[methyl-2-[[1-methyl-3-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-3-oxo-1-propenyl]amino]ethoxy]- (9CI) (CA INDEX NAME)



2 (D1-Me)



CC 35-2 (Chemistry of Synthetic High Polymers)
 IT 155915-06-3P 155915-09-6P 155915-10-9P

10/576,892

155915-11-0P 155915-12-1P 155915-13-2P
 155915-14-3P 155915-16-5P 155915-17-6P 155915-18-7P
 155915-19-8P 155915-20-1P 155915-21-2P 156057-35-1P
 (preparation and characterization of)

L12 ANSWER 19 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1991:472341 HCAPLUS Full-text

DOCUMENT NUMBER: 115:72341

ORIGINAL REFERENCE NO.: 115:12529a,12532a

TITLE: Poly(ammonium alkoxydicyanoethenolates) as new
 hydrophobic and highly dipolar poly(zwitterions).
 1. Synthesis

AUTHOR(S): Pujol-Fortin, Marie Laure; Galin, Jean Claude

CORPORATE SOURCE: Inst. Charles Sadron, Strasbourg, 67083, Fr.

SOURCE: Macromolecules (1991), 24(16), 4523-30

CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 23 Aug 1991

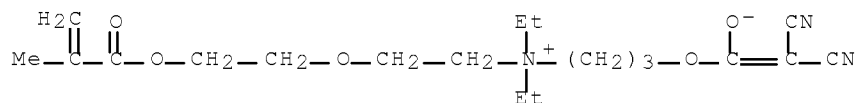
AB The nucleophilic ring-opening of dicyanoketene ethylene or propylene acetals
 by tertiary amine vinyl monomers readily leads to new crystalline zwitterionic
 monomers. Sixteen monomers were obtained with yields >70%, and their
 polymerization at 60° initiated by AIBN was straightforward. Mol. wts. of a
 methacrylate series were controlled from 5 + 106 to 1 + 105 using 2-
 mercaptoethanol as a transfer agent.

IT 134310-75-1P

(preparation and polymerization of)

RN 134310-75-1 HCAPLUS

CN 1-Propanaminium, 3-[(2,2-dicyano-1-hydroxyethenyl)oxy]-N,N-diethyl-N-
 [2-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethoxy]ethyl]-, inner salt
 (CA INDEX NAME)



CC 35-4 (Chemistry of Synthetic High Polymers)

IT 109509-78-6P 134287-27-7P 134287-28-8P 134287-30-2P

134287-31-3P 134287-32-4P 134287-33-5P 134287-34-6P

134287-35-7P 134287-36-8P 134287-37-9P 134287-38-0P

134287-39-1P 134287-40-4P 134287-41-5P 134310-75-1P

(preparation and polymerization of)

L12 ANSWER 20 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1988:206349 HCAPLUS Full-text

DOCUMENT NUMBER: 108:206349

ORIGINAL REFERENCE NO.: 108:33905a,33908a

TITLE: Actinic radiation-curable (meth)acrylamide
 derivative compositions for coatings

INVENTOR(S): Takamatsu, Yukishige; Sato, Mitsuo

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 62232410	A	19871012	JP 1986-75587	19860403
JP 05062883	B	19930909		
PRIORITY APPLN. INFO.:			JP 1986-75587	19860403

ED Entered STN: 11 Jun 1988

AB Rapid-curing title compns. giving coatings with good hardness contain CH₂:CR₃CONR₁R₂(OCOCCR₃:CH₂)_n-1 [R₁ = H, hydrocarbyl, (meth)acryloyloxyalkyl; R₂ = n-valent hydrocarbyl; R₃ = H, Me; n = 2-4]. Thus, N,N-bis(acryloyloxyethyl)acrylamide (I; prepared by amidation of diethanolamine with acryloyl chloride and esterification with acrylic acid) 25, ethylene glycol-phthalic anhydride copolymer acrylate (mol. weight 630) 75, and α,α-dimethoxy-α-phenylacetophenone 4 parts were mixed, applied to tinplate, dried, and irradiated under a Hg lamp (80 W/cm²) on a belt conveyer (20 m/min) to give a 50-μ coating with pencil hardness H. Coatings could not be obtained when trimethylolpropane triacrylate, ethylene glycol diacrylate, 1,6-hexanediol diacrylate, neopentyl glycol diacrylate, or 2-ethylhexyl acrylate was used instead of I.

IT 114494-26-7

(coatings, quickly cured by actinic radiation, with good hardness)

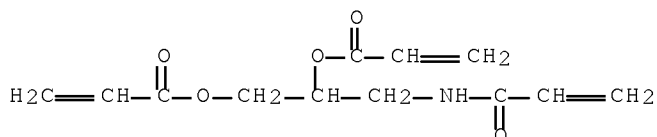
RN 114494-26-7 HCAPLUS

CN 2-Propenoic acid, 1-[[[(1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester, polymer with α-(1-oxo-2-propenyl)-ω-[2-[(1-oxo-2-propenyl)oxy]ethoxy]poly(oxy-1,2-ethanediylloxycarbonyl-1,2-phenylenecarbonyl) (9CI) (CA INDEX NAME)

CM 1

CRN 57950-46-6

CMF C12 H15 N O5

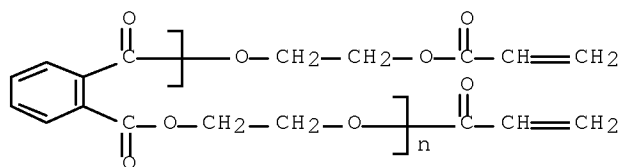


CM 2

CRN 51617-61-9

CMF (C10 H8 O4)_n C8 H10 O4

CCI PMS



IC ICM C08F020-58
 CC 42-7 (Coatings, Inks, and Related Products)
 IT 114494-23-4 114494-25-6 ~~114494-26-7~~ 114515-26-3
 (coatings, quickly cured by actinic radiation, with good hardness)

L12 ANSWER 21 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1988:113131 HCAPLUS Full-text
 DOCUMENT NUMBER: 108:113131
 ORIGINAL REFERENCE NO.: 108:18549a,18552a
 TITLE: Acrylamide derivatives and their polymers
 INVENTOR(S): Suzuki, Yuji; Urano, Satoshi; Umemoto, Hirotoishi;
 Mizuguchi, Ryuzo; Aoki, Kei; Tsuboniwa, Noriyuki
 PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 36 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 243208	A2	19871028	EP 1987-303697	19870427
EP 243208	A3	19880120		
R: CH, DE, FR, GB, IT, LI, NL				
CA 1289571	C	19910924	CA 1987-535498	19870424
JP 63045245	A	19880226	JP 1987-102598	19870425
JP 63045246	A	19880226	JP 1987-102599	19870425
JP 63046208	A	19880227	JP 1987-102600	19870425
JP 63046209	A	19880227	JP 1987-102601	19870425
AU 8772114	A	19871029	AU 1987-72114	19870427
AU 597354	B2	19900531		
AU 8772115	A	19871029	AU 1987-72115	19870427
AU 598810	B2	19900705		
US 4914225	A	19900403	US 1987-42893	19870427
US 4956491	A	19900911	US 1987-42713	19870427
CA 1290765	C	19911015	CA 1987-535609	19870427
US 5208308	A	19930504	US 1990-468281	19900122
US 4970281	A	19901113	US 1990-478150	19900209
US 5274062	A	19931228	US 1992-981190	19921124
PRIORITY APPLN. INFO.:			JP 1986-97760	A 19860425
			JP 1986-97761	A 19860425
			US 1987-42713	A3 19870427
			US 1987-42893	A3 19870427
			US 1990-468281	A3 19900122

ED Entered STN: 01 Apr 1988

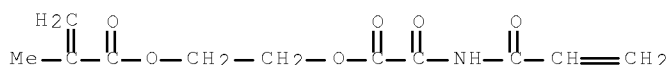
AB Highly reactive polymers bearing -CONHCOCO₂R groups (R = hydrocarbyl) are useful in coatings, adhesives, and moldings. Adding 127 g oxalyl chloride over 30 min to 71 g acrylamide in 200 g CH₂Cl₂ at 0° gave a 50% solution of ClCH₂CH₂CONHCOCOCl, the reaction of 100 g of which with 13.8 g EtOH in CH₂Cl₂ at <25° gave 41.5 g ClCH₂CH₂CONHCOCO₂Et, dehydrochlorination of which by Et₃N in C₆H₆ at room temperature gave 86% CH₂:CHCONHCOCO₂Et (I), AIBN-initiated polymerization of I in dioxane-BuOAc at 100° gave a polymer (mol.weight 8940, polydispersity 5.25) which was coated on tinplate and baked 3 h at 100° to give a 20-μ film with pencil hardness HB.

IT 113282-96-5P

(preparation of)

RN 113282-96-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[oxo[(1-oxo-2-propenyl)amino]acetyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



IC ICM C08F020-58

ICS C07C103-92

CC 35-2 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 23, 42

IT 71496-13-4P 113125-89-6P 113125-90-9P 113125-91-0P
113125-92-1P 113125-93-2P 113125-94-3P 113125-95-4P
113125-96-5P 113126-01-5P 113126-03-7P 113282-96-5P

(preparation of)

L12 ANSWER 22 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1988:76055 HCAPLUS Full-text

DOCUMENT NUMBER: 108:76055

ORIGINAL REFERENCE NO.: 108:12599a,12602a

TITLE: Alpha-alkylacrylamide derivatives and their polymers

INVENTOR(S): Suzuki, Yuji; Urano, Satoshi; Umemoto, Hirotoishi; Mizuguchi, Ryuzo; Aoki, Kei; Tsuboniwa, Noriyuki

PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 37 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
EP 243207	A2	19871028	EP 1987-303696	19870427
EP 243207	A3	19880120		
R: CH, DE, FR, GB, IT, LI, NL				
CA 1289571	C	19910924	CA 1987-535498	19870424
JP 63045245	A	19880226	JP 1987-102598	19870425
JP 63045246	A	19880226	JP 1987-102599	19870425
JP 63046208	A	19880227	JP 1987-102600	19870425
JP 63046209	A	19880227	JP 1987-102601	19870425
AU 8772114	A	19871029	AU 1987-72114	19870427

10/576,892

AU 597354	B2	19900531		
AU 8772115	A	19871029	AU 1987-72115	19870427
AU 598810	B2	19900705		
US 4914225	A	19900403	US 1987-42893	19870427
US 4956491	A	19900911	US 1987-42713	19870427
CA 1290765	C	19911015	CA 1987-535609	19870427
US 5208308	A	19930504	US 1990-468281	19900122
US 4970281	A	19901113	US 1990-478150	19900209
US 5274062	A	19931228	US 1992-981190	19921124
PRIORITY APPLN. INFO.:			JP 1986-97760	A 19860425
			JP 1986-97761	A 19860425
			US 1987-42713	A3 19870427
			US 1987-42893	A3 19870427
			US 1990-468281	A3 19900122

OTHER SOURCE(S): CASREACT 108:76055

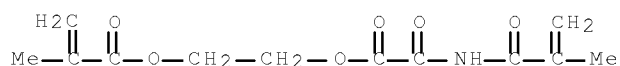
ED Entered STN: 05 Mar 1988

AB Polymers from monomers bearing the groups -CONHCOCOR (R = hydrocarbon chain bearing ≥ 1 lower alkyl group) are useful in coatings, adhesives, and moldings. Adding 78.5 g EtOCOCOC1 over 2.5 h to a refluxing solution of 49.1 g methacrylamide in 288.5 mL C6H6 and refluxing 5 h gave 45.8 g CH2:CMcCONHCOCO2Et (I). Adding I 8.8, Me methacrylate 8.8, styrene 12.4, 2-hydroxyethyl methacrylate 11.8, Bu acrylate 8.2, and AIBN 1.0 g over 2 h to 15 g EtOCH2CH2OAc and 25 g BuOAc at 100°; adding 0.5 g AIBN and 10 g EtOCH2CH2OAc over 30 min, and heating 3 h gave a 50% solution of pale yellow polymer with mol. weight 7700.

IT ~~112852-28-5P~~ ~~112852-29-6P~~ ~~112871-36-0P~~
(preparation of)

RN 112852-28-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[2-[(2-methyl-1-oxo-2-propen-1-yl)amino]-2-oxoacetyl]oxy]ethyl ester (CA INDEX NAME)



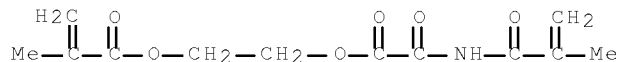
RN 112852-29-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(2-methyl-1-oxo-2-propenyl)amino]oxoacetyl]oxy]ethyl ester, polymer with ethenylbenzene and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112852-28-5

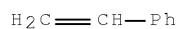
CMF C12 H15 N O6



CM 2

CRN 100-42-5

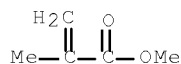
CMF C8 H8



CM 3

CRN 80-62-6

CMF C5 H8 O2



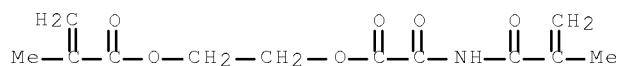
RN 112871-36-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(2-methyl-1-oxo-2-propenyl)amino]oxoacetyl]oxy]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 112852-28-5

CMF C12 H15 N O6



IC ICM C08F020-58

ICS C07C103-92

CC 35-2 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 23, 28, 42

IT 112832-09-4P 112832-10-7P 112832-11-8P 112832-12-9P
 112832-13-0P 112832-14-1P 112832-15-2P 112832-16-3P
 112832-17-4P 112832-18-5P 112832-19-6P 112832-20-9P
 112832-21-0P 112832-22-1P 112832-23-2P 112832-24-3P
 112832-25-4P 112832-26-5P 112832-27-6P 112832-28-7P
 112832-29-8P 112832-30-1P 112832-31-2P 112832-32-3P
 112832-33-4P 112832-34-5P 112832-35-6P ~~112852-28-5P~~
~~112852-29-6P~~ ~~112871-36-0P~~ 112915-28-3P
 (preparation of)

L12 ANSWER 23 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1977:406190 HCAPLUS Full-text

DOCUMENT NUMBER: 87:6190
 ORIGINAL REFERENCE NO.: 87:1001a,1004a
 TITLE: Unsaturated esters and amides of diphosphonic acids
 INVENTOR(S): Sugiyama, Iwakichi; Takaoka, Yukihiisa; Hijikata, Mamoru; Endo, Kitoshi
 PATENT ASSIGNEE(S): Matsumoto Seiyaku Kogyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51143619	A	19761210	JP 1975-67497	19750606
JP 59008279	B	19840223		
PRIORITY APPLN. INFO.:			JP 1975-67497	A 19750606

ED Entered STN: 12 May 1984

AB Polymerizable unsatd. esters or amides of [(HO)2P(O)]2CROH (I, R = hydrocarbon) were prepared by reaction of I (or its salt) with one or more polymerizable unsatd. compds. containing oxiranyl groups or at least one amino group. The esters and amides are used in the preparation of water-soluble adhesives or resinous compns. Thus, 34.3 parts 60% aqueous I (R = Me) and 56.8 parts glycidyl methacrylate were stirred at room temperature for 40-50 min to give a homog. transparent liquid [R1R2P(O)]2CROH II, [R = Me; R1 = R2 = CH2:CMcCO2CH2CH(OH)CH2O(Q)]. The liquid 10, (NH4)2S2O8 0.1, and ascorbic acid 0.2 part were heated to 50° under N 2 h giving a resin which had tensile strength 153 kg/cm2. Among 6 more II prepared were (R, R1R2 given): Ph, Q2; Me, [CH2:CHCH2OCH2CH(OH)CH2O]2; Me, [CH2:CMcCO2CH2CH(OH)CH2O] (NaO); Me, (CH2:CHCONH)2.

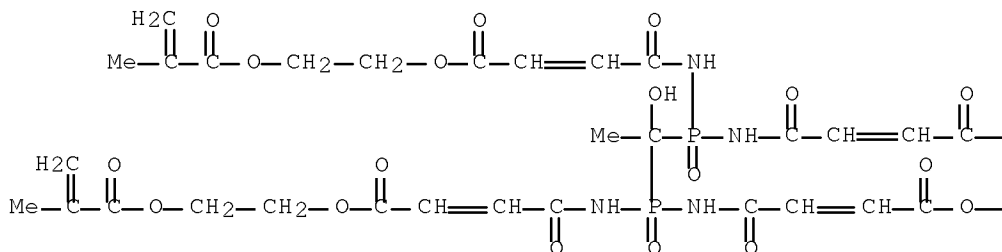
IT 62994-05-2P

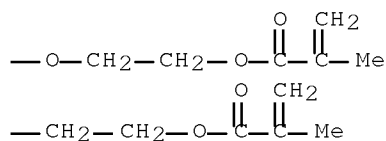
(preparation of)

RN 62994-05-2 HCAPLUS

CN 5,9-Diaza-6,8-diphosphatrideca-2,11-dienedioic acid,
 7-hydroxy-7-methyl-6,8-bis[[4-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethoxy]-1,4-dioxo-2-buten-1-yl]amino]-4,10-dioxo-,
 1,13-bis[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl] ester,
 6,8-dioxide (CA INDEX NAME)

PAGE 1-A





IC C07F009-40
 CC 29-7 (Organometallic and Organometalloidal Compounds)
 Section cross-reference(s): 35, 37
 IT 62994-03-0P 62994-04-1P ~~62994-05-2P~~ 62994-06-3P
 63176-21-6P 63176-22-7P 63176-23-8P
 (preparation of)

L12 ANSWER 24 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1976:60455 HCAPLUS Full-text
 DOCUMENT NUMBER: 84:60455
 ORIGINAL REFERENCE NO.: 84:9965a,9968a
 TITLE: Polymeric adhesive composition
 INVENTOR(S): Jones, Robert John; Green, Howard Edward; Vaughan,
 Robert W.
 PATENT ASSIGNEE(S): TRW Inc., USA
 SOURCE: Ger. Offen., 23 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2520831	A1	19751120	DE 1975-2520831	19750509
US 3953544	A	19760427	US 1974-468705	19740510
AU 7580764	A	19761104	AU 1975-80764	19750502
JP 50153047	A	19751209	JP 1975-54174	19750506
NL 7505359	A	19751112	NL 1975-5359	19750507
SE 7505394	A	19751111	SE 1975-5394	19750509
FR 2270309	A1	19751205	FR 1975-14560	19750509
FR 2270309	B3	19781117		
PRIORITY APPLN. INFO.:			US 1974-468705	A 19740510

ED Entered STN: 12 May 1984
 AB Acrylamidopolyol acrylates were mixed with 0-15% peroxide and 0-15% organic accelerator and used as adhesives for Al [7429-90-5], Ti, and their alloys. Thus, 2-acrylamido-2-ethyl-1,3-propanediol diacrylate [57950-40-0] was prepared by treating 2-amino-2-ethyl-1,3-propanediol [115-70-8] with 3 equivs. of acryloyl chloride [814-68-6] and was combined with 5% Me Et ketone peroxide and 5% Co naphthenate and used to adhere a strip of pure Al with a strip of a 6% Al-4% V-90% Ti alloy [11107-75-8], giving an adhesive bond which lost 0.0741% weight after 2 hr in boiling water and had lap shear strength 7.6 + 106 N/m².
 IT ~~57950-45-5~~ ~~57950-47-7~~
 (adhesives, for aluminum and titanium)
 RN 57950-45-5 HCAPLUS

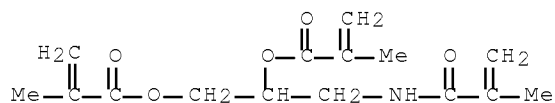
10/576,892

CN 2-Propenoic acid, 2-methyl-, 1-[[(2-methyl-1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 57950-44-4

CMF C15 H21 N O5



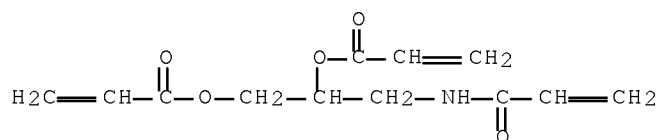
RN 57950-47-7 HCAPLUS

CN 2-Propenoic acid, 1-[[(1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 57950-46-6

CMF C12 H15 N O5

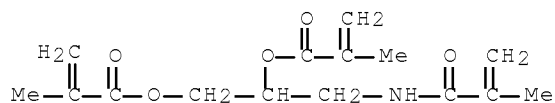


IT 57950-44-4P 57950-46-6P

(manufacture of, for adhesives for aluminum and titanium)

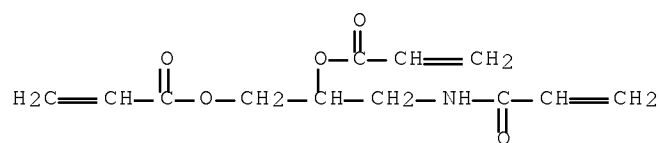
RN 57950-44-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-[[(2-methyl-1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



RN 57950-46-6 HCAPLUS

CN 2-Propenoic acid, 1-[[(1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



IC C09J
 CC 36-3 (Plastics Manufacture and Processing)
 Section cross-reference(s): 56
 IT 57950-41-1 57950-43-3 57950-45-5 57950-47-7
 57950-49-9
 (adhesives, for aluminum and titanium)
 IT 57950-40-0P 57950-42-2P 57950-44-4P 57950-46-6P
 57950-48-8P
 (manufacture of, for adhesives for aluminum and titanium)

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(FILE 'HOME' ENTERED AT 07:39:07 ON 21 MAR 2009)

FILE 'HCAPLUS' ENTERED AT 07:39:22 ON 21 MAR 2009

L1 1 SEA ABB=ON PLU=ON US20070043191/PN
 SEL RN

FILE 'REGISTRY' ENTERED AT 07:39:33 ON 21 MAR 2009

L2 5 SEA ABB=ON PLU=ON (449754-21-6/BI OR 856221-40-4/BI OR
 856221-41-5/BI OR 9033-79-8/BI OR 92092-95-0/BI)
 ACT BER892/A

L3 STR
L4 1 SEA SSS SAM L3

L5 STR L3
L6 26 SEA SSS SAM L5
L7 4380 SEA SSS FUL L5
L8 2 SEA ABB=ON PLU=ON L7 AND L2
 SAV L7 BER892A/A
L9 1 SEA SUB=L7 SSS SAM L3
L10 56 SEA SUB=L7 SSS FUL L3
L11 2 SEA ABB=ON PLU=ON L10 AND L2
 SAV L10 BER892/A

FILE 'HCAPLUS' ENTERED AT 07:48:56 ON 21 MAR 2009

L12 24 SEA ABB=ON PLU=ON L10
L13 1 SEA ABB=ON PLU=ON L11

FILE 'REGISTRY' ENTERED AT 07:51:20 ON 21 MAR 2009

L14 0 SEA ABB=ON PLU=ON L7 AND SRU
L15 STR L3
L16 0 SEA SUB=L7 SSS SAM L15
L17 0 SEA SUB=L7 SSS FUL L15